

NETL

Vacancy Announcement

U.S. DEPARTMENT OF ENERGY - NATIONAL ENERGY TECHNOLOGY LABORATORY (NETL)

ANNOUNCEMENT NO.: NETL-06-33

OPENING DATE: 07/24/06

CLOSING DATE: 09/07/06

POSITION: Focus Area Lead, Geological and Environmental Sciences, EJ-801/1301-V

LOCATION: Office of Research and Development (ORD),
Morgantown, WV or Pittsburgh, PA

SUBJECT TO:

Employment & Financial Interest Disclosure
Agreement Covering Discoveries, Inventions and Improvements
DOE CTAP (See Attached)
DOE ICTAP (See Attached)
1st Year Probationary Period

PROMOTION POTENTIAL: None

SALARY RANGE: (Includes locality pay)

\$123,557 - \$152,000

AREA OF CONSIDERATION: All Sources – Any Qualified U.S. Citizen

DUTIES AND RESPONSIBILITIES: The incumbent of this position is responsible for leading the development and conduct of scientific and applied research in geological, chemical, microbiological, and engineering processes important to the extraction, production, and utilization of fossil energy resources, such as improved exploration and production (E&P) of natural gas and oil from unconventional domestic resources, use of oil shale and oil/tar sands, and the conversion and storage of carbon dioxide and other greenhouse gases in forms that will not exacerbate global climate change. The research portfolio encompasses both theoretical and experimental activities and is currently focused on novel processes such as unconventional natural gas and oil recovery, deep drilling for oil and gas resources, methane hydrates, coal seam sequestration and simultaneous methane recovery, extraction of oil from shale or oil/tar sands, sequestration in deep brine fields, interactions of carbon dioxide with brines and rocks, and measurement, monitoring, and verification (MMV) of leak detection methodologies for carbon sequestration. The Focus Area Lead will also develop robust modeling, assessment and validation tools important in the comparative analysis of various sequestration

approaches and natural gas/oil E&P technologies. Since the current state-of-the-art is not able to meet the goals for the performance of unconventional gas and oil recovery and sequestration technology, the program is designed to advance the state-of-knowledge of science important to the development of economically viable and environmentally acceptable technology options for unconventional fuels resources exploration and production and the long-term sequestration of carbon dioxide and other greenhouse gases.

QUALIFICATION REQUIREMENTS: To be eligible for consideration, applicants must meet the basic requirement of: (A) successful completion of a full four-year professional curriculum leading to a bachelor's or higher degree in engineering, physical science or mathematics that included 24 semester hours in physical science and/or related engineering science such as mechanics, dynamics, properties of materials and electronics, OR (B) combination of education and experience—education equivalent to one of the majors shown in A above that included at least 24 semester hours in physical science and/or related engineering science, plus appropriate experience or additional education related to the fields above. In addition, applicants must have at least one year of specialized experience that meets the appropriate level of technical qualifications as listed below. This is a senior-level position requiring candidates to have a national and international reputation for scientific excellence and leadership. Candidates who possess a Ph.D. in one of the fields mentioned above with extensive related experience are highly preferred.

Technical Qualifications

1. Ability to provide a national leadership role in formulating and guiding the scientific research and development in geological and environmental science related to oil and gas exploration and production (E&P) and geological carbon sequestration technologies.
2. Knowledge of highly theoretical analyses and experimental techniques for carrying out research and development projects in the fields of oil and gas E&P and carbon sequestration technologies using novel, unique, and beyond state-of-the-art techniques.
3. Knowledge of physical and chemical science and engineering of flows, chemical interactions, geology, geophysics, and related phenomena in underground reservoirs and structures related to natural gas and oil E&P, carbon sequestration and/or unconventional reservoirs such as shales, naturally occurring methane hydrates, tight sands and technologies such as deep drilling and natural fracture systems.
4. Ability to provide leadership to other scientists and engineers and act as a NETL spokesperson and liaison in the area of geological and environmental science and related fossil energy use with other key government organizations, private industry, national and international organizations, and academia.
5. Skill in written and oral presentations as evidenced by a record of technical publications and recognition as an advisor and consultant on scientific and technical problems related to geological and environmental science and fossil energy use.

METHODS: Applicants will be rated and ranked by a Merit Staffing Committee using only the information submitted for consideration. Failure to document demonstrated experience, training, or education in support of the required qualification requirements will adversely affect an applicant's chance for further consideration. The committee will rate and rank each applicant based on the criteria identified in the qualification requirements and refer the top applicants to the selecting official. Top applicants may be requested to give a technical presentation of their current research. The selecting official will consider the

applicants referred based on the information provided, the technical presentation, and/or a personal interview.

EXCEPTED SERVICE AUTHORITY INFORMATION: This position is an Excepted Service position authorized under the DOE Organization Act Section 621(d) Authority. The excepted appointment is indefinite. Position is in Pay Band V, which is above the GS-15 level. Employees in positions under this authority shall receive the same comparability (or cost-of-living) increases that are applicable to other Federal employees in comparable positions. All other salary increases for these positions shall be based upon performance. Such increases shall be approved consistent with the performance management systems which are used for other Federal employees in comparable positions. Employees appointed under this authority for periods exceeding one year are entitled to the same basic benefits, e.g., health benefits, life insurance, and leave accrual, as other excepted service employees in the Department of Energy. A trial, probationary period of one year for the purpose of assessing the ability of an individual to adequately perform in his/her assigned position will be established for positions under this authority. Employees separated within their trial, probationary period will be provided the same rights as other employees who are involuntarily separated during a trial, probationary period. Performance appraisals consistent with the system established for Federal employees in comparable positions shall be used as the basis for rewarding, retaining, and removing employees appointed under this authority.

NOTES:

- (1) The U.S. Department of Energy is an Equal Opportunity Employer.
- (2) Under the Federal Employees Pay Comparability Act, all provisions for recruitment, relocation, and retention bonuses are applicable in accordance with Federal regulations
- (3) Relocation expenses may be paid in accordance with Federal Travel Regulations.
- (4) The Government is entitled to ownership of any invention directly related to a Government employee's official duties. In return, when such an invention is patented by the Government and then licensed to a private sector entity, NETL is required by law to share a portion of any royalties or other payments received under the license with the Government employee inventor. An inventor may receive up to \$150,000 per year under this provision. The annual limit is cumulative for all inventions rather than per invention.
- (5) The entry on duty date for the candidate is negotiable.
- (6) For more information about the National Energy Technology Laboratory (NETL), please visit our website at www.netl.doe.gov. The status of all NETL vacancy announcements can be found under career opportunities.

TO APPLY: All applicants are requested to submit a current curriculum vitae with any of the following documents: (1) Optional Application for Federal Employment Form (OF-612); or (2) resume; or (3) any written format of your choice. Regardless of document chosen, it must contain the following information: announcement number, full name, address, day and evening phone numbers, Social Security number, country of citizenship, reinstatement eligibility, highest Federal civilian grade held, education, work experience, and other job related information pertinent to the position for which applying. In addition, applicants **must submit a supplemental statement addressing each of the technical qualification requirements listed above.** Applicants have the option of submitting a current performance appraisal. Applications should be sent to the U.S. Department of Energy, National Energy Technology Laboratory, Human Resources Division, 3610 Collins Ferry Road, P.O. Box 880, Morgantown, WV 26507-0880. For further information, contact Scott Sigley at (304) 285-4470. Application materials must be received by the closing date of this announcement.

Here's what your resume or application must contain (in addition to specific information requested in the job vacancy announcement):

JOB INFORMATION

Give the following information related to the job for which you are applying.

Announcement number

Title

Grade(s)

Identify the lowest pay or grade level you will accept. *(You will not be considered for jobs which pay less than you indicated.)*

PERSONAL INFORMATION

Full name

Mailing address *(with ZIP Code)*

Day and evening phone numbers *(with area code)*

Social Security number

Country of citizenship *(Most Federal jobs require United States citizenship.)*

Veterans' preference

Reinstatement eligibility *(If requested, attach SF-50 proof of your career or career-conditional status.)*

Highest Federal civilian grade held *(Also give job series and dates held.)*

EDUCATION

High school

Name, city, and state *(ZIP code if known)*

Date of diploma or GED

Colleges and universities

Name, city, and state *(ZIP code if known)*

Majors

Type and year of any degrees received *(If no degree, show total credits earned and indicate whether semester or quarter hours.)*

Send a copy of your college transcript only if the job vacancy announcement requests it.

WORK EXPERIENCE

Give the following information for your paid and nonpaid work experience related to the job for which you are applying. *(Do not send job descriptions.)*

Job title *(include series and grade if Federal job)*

Duties and accomplishments

Employer's name and address

Supervisor's name and phone number

Starting and ending dates *(month and year)*

Hours per week

Salary

Indicate if we may contact your current supervisor.

OTHER QUALIFICATIONS

Job-related training courses *(title and year)*.

Job-related skills, for example, other languages, computer software/hardware, tools, machinery, typing speed

Job-related certificates and licenses *(current only)*

Job-related honors, awards, and special accomplishments, for example, publications, memberships in professional or honor societies, leadership activities, public speaking, and performance awards. *(Give dates but do not send documents unless requested.)*

APPLICANT BACKGROUND SURVEY QUESTIONNAIRE

PRIVACY INFORMATION

General

The information is provided pursuant to Public Law 935-597 (Privacy Act of 1974), December 31, 1974, for individuals completing Federal records and forms that solicit personal information.

Authority

Sections 1302, 3301, 3304, and 7201 of Title 5 of the U.S. Code.

Purpose and Routine Uses

The information from this survey is used for research and for a Federal equal opportunity recruitment program to help ensure that agency personnel practices meet the requirements of Federal law.

Effects of Nondisclosure

Providing this information is voluntary. No individual personnel selections are made based on this information.

GENERAL INSTRUCTIONS

The information from this survey is used to help ensure that agency personnel practices meet the requirements of Federal law.

Your responses are **voluntary**. Please answer each of the questions to the best of your ability. Please print entries in pencil or pen. Use only capital letters. Read each item thoroughly before completing the appropriate code number in each box.

Vacancy Announcement No.:

NETL-06-33

Date (Month, Day, Year):

Position: Focus Area Lead, Geological and Environmental Science, EJ-801/1301-V

Name:

How did you learn about the particular position or exam for which you are applying? (You may circle up to three choices.)

- 01--Private Information Service
- 02--Magazine/Newspaper
- 03--Radio/TV
- 04--DOE Home Page
- 05--NETL Home Page
- 06--OPM USA Jobs
- 07--Minorities Job Bank
- 08--Other WEB sites (Specify):
- 09--Hard Copy of Vacancy Announcement
- 10--Agency Personnel Department
- 11--FRS-Federal Career Opportunities Listing
- 12--Federal/State/Local Job Information Center
- 13--Religious Organization
- 14--School or College Counselor or Other Official
- 15--Friend or Relative Working for the Agency
- 16--Friend or Relative Not Working for Agency
- 17--State Employment Office (Unemployment Office)
- 18--Private Employment Office
- 19--Other (Specify):

Please categorize yourself in terms of the race/ethnic category and sex using the definitions below: (Please circle one.)

RACE/ETHNIC CODE:

A--American Indian or Alaskan Native

Person having origins in any of the original peoples of North America, and who maintains cultural identification through tribal affiliation or community recognition.

B--Asian or Pacific Islander

Person having origins in any of the original peoples of the Far East, Southeast Asia, the Indian subcontinent, or the Pacific Islands. This area includes, for example, China, India, Japan, Korea, the Philippine Islands, and Samoa.

C--Black, Not of Hispanic Origin
Person having origins in any of the black racial groups of Africa.

D--Hispanic
Person of Mexican, Puerto Rican, Cuban Central or South American, or other Spanish culture or origin, regardless of race.

E--White, Not of Hispanic Origin
Person having origins in any of the original peoples of Europe, North Africa, or the Middle East.

SEX: (Please circle one.)

1--Male
2--Female

DISABILITY STATUS: (Please circle one.)

You may submit this form as part of your application package; however, it will be removed upon receipt and forwarded to NETL's Office of the Economic Impact and Diversity Manager.

Disability Status Codes:

- 05. I do not have a disability.
- 16. Total deafness in both ears, with or without understandable speech.
- 23. Inability to read ordinary size print, not correctable by glasses (can read oversize print or use assisting device).
- 25. Blind in both eyes (no usable vision, may have some light perception).
- 28. Missing one arm or one leg.
- 33. Missing both hands or both arms or both feet or both legs.
- 35. Missing one hand or arm and one foot or leg.
- 64. Partial paralysis of both hands.
- 65. Partial paralysis of both legs, any part, or both arms, any part.
- 67. Partial paralysis of one side of the body, including one arm and one leg.
- 68. Partial paralysis of three or more major parts of the body (arms and legs).
- 71. Complete paralysis of both hands or both arms or both legs.
- 72. Complete paralysis of one arm or one leg.
- 76. Complete paralysis of lower half of body, including legs.
- 77. Complete paralysis of one side of body, including one arm and one leg.
- 78. Complete paralysis of three or more major parts (of body) (arms and legs).
- 82. Convulsive disorder (e.g., epilepsy).
- 90. Mental retardation (a chronic and lifelong condition involving a limited ability to learn, to be educated, and to be trained for useful productive employment as certified by a state vocational rehabilitation agency).
- 91. Mental or emotional illness (a history of treatment for mental or emotional problems).
- 92. Severe distortion of limbs and/or spine (e.g., dwarfism, severe distortion of the back).
- 06. I have a disability, but it is not listed above. Describe:

SPECIAL SELECTION PRIORITY CONSIDERATION FOR SURPLUS OR DISPLACED EMPLOYEES

Department of Energy (DOE) SURPLUS OR DISPLACED EMPLOYEES REQUESTING SPECIAL SELECTION PRIORITY CONSIDERATION UNDER THE CAREER TRANSITION ASSISTANCE PROGRAM (CTAP)

If you are currently a DOE employee who has received a Reduction in Force (RIF) separation notice or a Certificate of Expected Separation you may be entitled to special priority selection under the DOE Agency Career Transition Assistance Program (CTAP). To be eligible for special priority selection under the DOE's Career Transition Assistance Program (CTAP) you must meet all of the following conditions:

1. Displaced Employee is: (A) a current DOE career or career-conditional competitive service employee in tenure Group I or II, at a GS-15 grade level or equivalent and below, who has received a RIF separation notice or notice of proposed removal for declining a directed reassignment or transfer of function outside of the local commuting area; or (B) a current DOE employee in the excepted service, serving on an appointment without time limit, at a GS-15 grade level or equivalent and below, who has been given non-competitive appointment eligibility and selection priority by statute for positions in the competitive service, and who has received a RIF separation notice or notice of proposed removal for declining a transfer of function or directed reassignment outside of the local commuting area.

Surplus Employee is: (A) a current employee serving under an appointment in the competitive service, in tenure Group I or II, at a GS-15 grade level or equivalent and below, who has received a Certificate of Expected Separation (CES) or other official certification issued by DOE indicating that your position is surplus, for example, a notice of position abolishment, or a notice stating that you are eligible for discontinued service retirement; or (B) a current DOE employee serving on an excepted service appointment without time limit, at a GS-15 grade level or equivalent and below, who has been issued a certificate of expected separation or other official agency certification indicating that your position is surplus, for example, a notice of position abolishment or a notice stating that you are eligible for discontinued service retirement, and you have been conferred noncompetitive appointment eligibility and special selection priority by statute for positions in the competitive service.

You must submit one of the following with your application as proof of eligibility for this special selection priority: (A) a copy of the RIF separation notice or notice of proposed removal for declining a directed reassignment or transfer of function outside of the commuting area; (B) Certificate of Expected Separation (CES) or other official notice from DOE indicating that you are surplus or eligible for discontinued service retirement; or (C) other official DOE certification identifying you as being in a surplus organization or occupation.

2. Be applying for a position that is at or below the grade level of the position from which you are being separated. The position must not have a greater promotion potential than the position from which you are being separated.
3. Have a current (or last) performance rating of record of at least fully successful or equivalent. This **must** be submitted with your application package.
4. Be currently employed by the DOE in the same commuting area of the position for which you are requesting priority consideration; or at DOE's discretion, occupy a position beyond the local commuting area. An eligible DOE employee outside the local commuting area, can only exercise selection priority when there are no eligible surplus and displaced DOE employees within the local commuting area who apply and are found well qualified.
5. File your application by the Vacancy Announcement closing date and meet all the application criteria (e.g., submit all required documentation, etc.).
6. Be rated well-qualified for the position (final score on quality ranking factors is at the acceptable or above level).

DISPLACED EMPLOYEES REQUESTING SPECIAL SELECTION PRIORITY CONSIDERATION UNDER THE INTERAGENCY CAREER TRANSITION ASSISTANCE PROGRAM (ICTAP)

If you are a displaced Federal employee you may be entitled to receive special priority selection under the ICTAP. To receive this priority consideration you must:

1. Be a displaced Federal employee. You must submit one of the following as proof of eligibility for this special selection priority: a Reduction in Force (RIF) separation notice, or a notice of proposed removal for declining a directed reassignment or transfer of function to another commuting area; documentation, e.g., SF-50, Notification of Personnel Action, showing that you were separated as a result of RIF or for declining a transfer of function or directed reassignment to another commuting area; official certification from an agency stating that it cannot place you and your injury compensation has been or is being terminated; official notification from the Office of Personnel Management (OPM) that your disability annuity has been or is being terminated; or official notification from the Military Department or National Guard Bureau that you have retired under 5 United States Code 8337(h) or 8456. The following categories of candidates are considered displaced employees.

A. Current or former career or career-conditional (tenure Group I or II) at the GS-15 grade level or equivalent and below competitive service employees who:

1. Received a specific **RIF** separation notice; or a notice of proposed removal for declining a directed reassignment or transfer of function outside the local commuting area;
2. Separated because of a compensable injury or illness as provided under the provisions of Subchapter I of Chapter 81 of Title 5, United States Code, whose compensation has been terminated, and whose former agency certifies that it is unable to place; or
3. Retired with a disability under Sections 8337 or 8451 of Title 5, United States Code, and whose disability annuity has been or is being terminated; or
4. Upon receipt of a RIF separation notice retired **ON** the effective date of the RIF and submits a Standard Form 50 that indicates "Retirement in lieu of RIF"; or
5. Retired under the discontinued service retirement option; or
6. Was separated through reduction in force, or removed for declining a transfer of function or directed reassignment outside the local commuting area.

OR

B. Former Military Reserve or National Guard Technicians who are receiving a special Office of Personnel Management (OPM) disability retirement annuity under Section 8337(h) or 8456 of Title 5, United States Code.

OR

C. A current Executive Branch agency employee in the excepted service, serving on an appointment without time limit, at a GS-15 grade level or equivalent and below, who has been given noncompetitive appointment eligibility and selection priority by statute for positions in the competitive service, and who is in receipt of a reduction in force separation notice or notice of proposed removal for declining a transfer of function or directed reassignment outside the local commuting area.

OR

D. A former Executive Branch agency employee in the excepted service, who served on an appointment without time limit, at a GS-15 grade level or equivalent and below, who has been given noncompetitive appointment eligibility and selection priority by statute for positions in the competitive service, and who has been separated through reduction in force or removed for declining a transfer of function or directed reassignment outside the local commuting area.

2. Be applying for a position at or below the grade level of the position from which you have been separated. The

position must not have a greater promotion potential than the position from which you were separated.

3. Have a current (or last) performance rating of record of at least fully successful or equivalent. This **must** be submitted with your application package. (This requirement does not apply to candidates who are eligible due to compensable injury or disability retirement.)
4. Occupy or be displaced from a position in the same local commuting area of the position for which you are requesting priority consideration.
5. File your application by the Vacancy Announcement closing date and meet all the application criteria (e.g., submit all required documentation, etc.).
6. Be rated well-qualified for the position (final score on quality ranking factors is at the acceptable or above level).

VETERAN PREFERENCE IN HIRING:

1. General Provisions

If you are claiming 5-point preference, you must include on your resume (or an attached piece of paper) the following information: your dates of service, branch of service, and any campaign badges or expeditionary medals you received; and attach to your application material a copy of your DD-214, Certificate of Release or Discharge from Active Duty or other proof of eligibility. If you are claiming 10-point preference, you must attach a completed Standard Form (SF) 15, Application for 10-Point Veterans' Preference, along with the documentary proof described on that form.

You cannot receive preference if you are retired or plan to retire at or above the rank of major or lieutenant commander, unless you are disabled or retired from the active military reserve. To receive veteran preference, your separation from active duty must have been under honorable conditions. This includes honorable and general discharges, but not clemency discharges. Active duty for training in the military Reserve and National Guard programs is not considered active duty for purposes of veteran preference.

2. 5-Point Preference

You may qualify for 5-point preference under any one of the following conditions:

- A. If you served on active duty, other than in the Reserves, any time between December 7, 1941, and July 1, 1955 (if you were a Reservist called to active duty between February 1, 1955, and July 1, 1955), you must meet condition B. below.
- B. If you meet both of the following conditions:
 - 1. You served on active duty for more than 180 days, and
 - 2. You served on active duty any part of which was between July 2, 1955, and October 14, 1976, or you were a Reservist called to active duty between February 1, 1955, and October 14, 1976.
- C. If you meet both of the following conditions:
 - 1. You entered on active duty between October 15, 1976, and September 7, 1980, or were a Reservist who entered on active duty between October 15, 1976, and October 13, 1982, and
 - 2. You are a disabled veteran, or service must have been performed during a war or in a campaign or expedition for which a campaign badge or Expeditionary Medal has been authorized.
- D. If you enlisted in the Armed Forces after September 7, 1980, or entered active duty other than by enlistment on or after October 14, 1982, and meet either of the following conditions:
 - 1. Your service must have been performed during a war or in a campaign or expedition for which a Campaign Badge or Expeditionary Medal has been authorized, and either completed 24 months of continuous active duty or the full period called or ordered to active duty, or were discharged under 10 U.S.C. 1171 or for hardship under 10 U.S.C. 1173, or
 - 2. You are a disabled veteran.

NOTE: Under a new law, the Defense Authorization Act of November 18, 1997, veterans' preference is accorded anyone who served on active duty during the Gulf War from August 2, 1990, through January 2, 1992. The law grants preference to anyone who is otherwise eligible and who served on active duty during this period regardless of where the person served or for how long. Otherwise eligible means that a person must have been separated from the service under honorable conditions and have served continuously for a minimum of 24 months or the full period for which called or ordered to active duty. The law also authorizes the Armed Forces Expeditionary Medal for service in Bosnia during Operation Joint Endeavor (November 29, 1995-December 20, 1996) and Operation Joint Guard (December 20, 1996-to be determined). The Secretary of each military department decides which members are eligible. The award of the Armed Forces Expeditionary Medal is qualifying for veterans' preference.

3. 10-Point Preference

If you are a disabled (compensable or non-compensable) veteran, a Purple Heart recipient, or the spouse, widow, or mother of a deceased or disabled veteran, you may qualify for 10-point preference, you must enclose with your resume a completed SF-15 along with the necessary documentary proof.

NOTE: More information on veterans' preference is available in the Vets Guide that can be accessed through the Internet at www.opm.gov.